

1950 Fall Field Trip of Geology Section

The Ohio Academy of Science

Study of

Stratigraphy and Sedimentation of Sharon  
Conglomerate of Northeastern Ohio

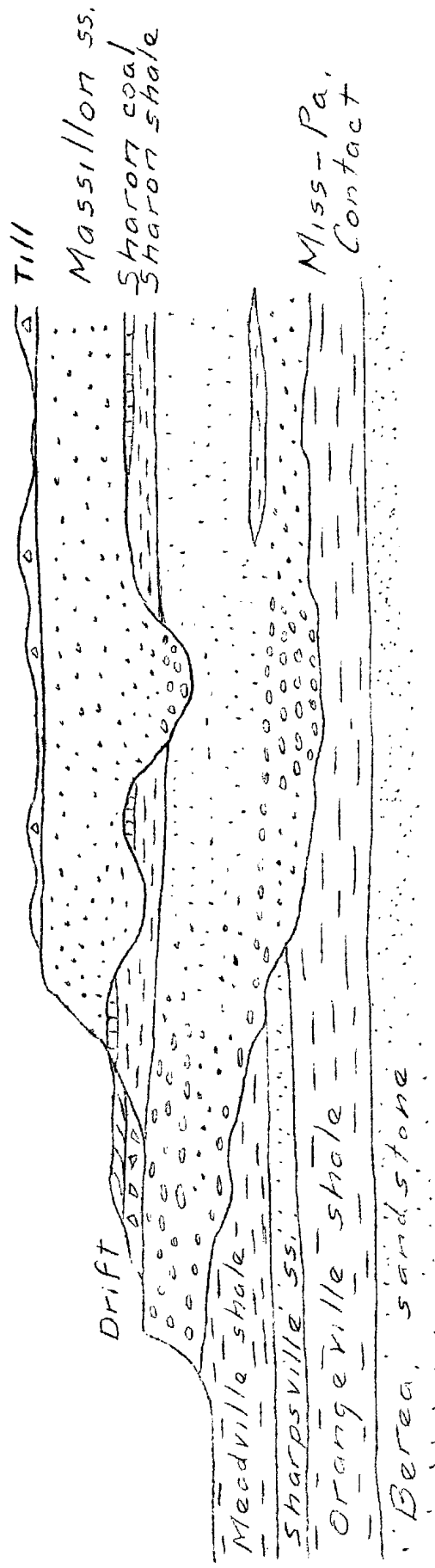
Leader:

J. Osborn Fuller  
The Ohio State University  
and  
Geological Survey of Ohio

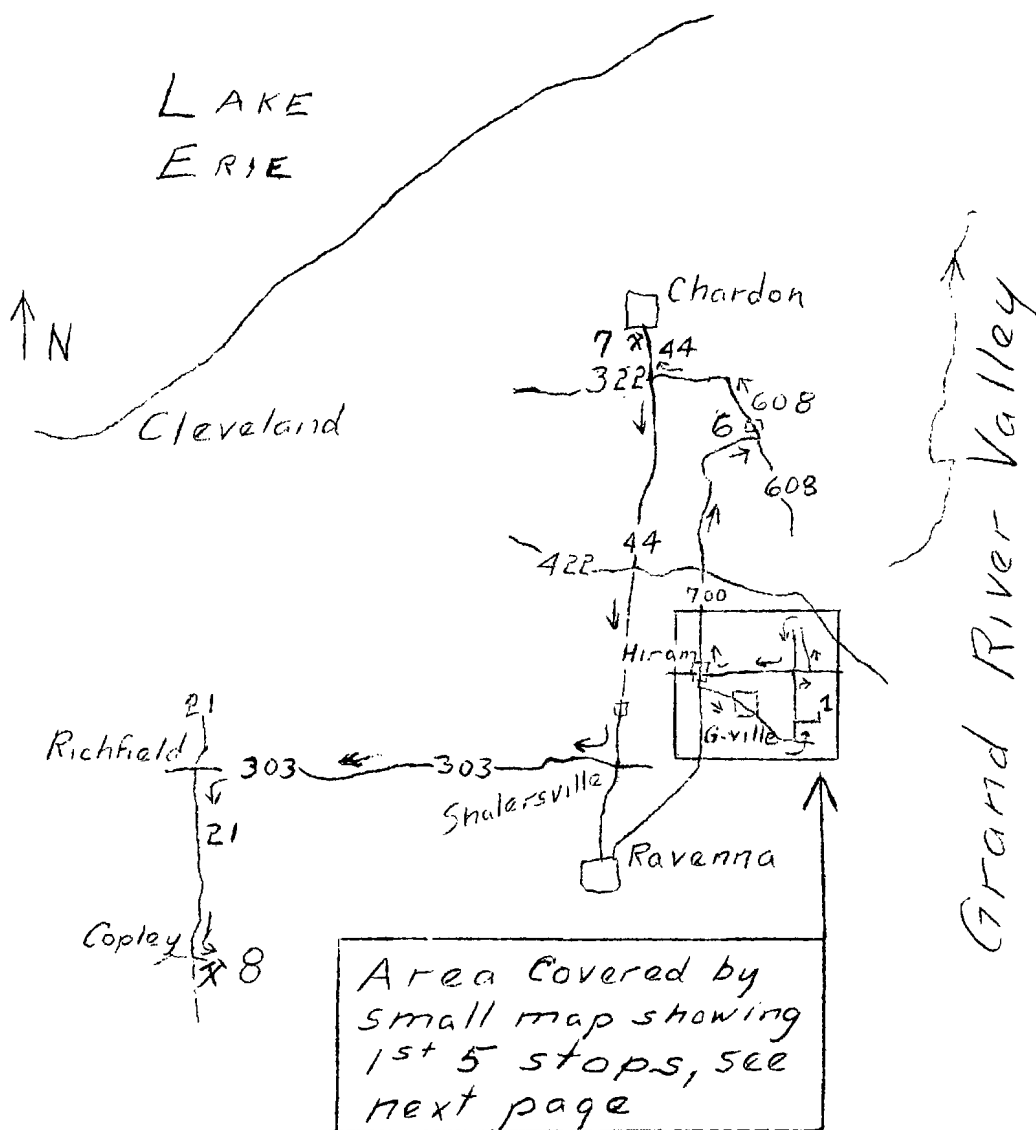
# Generalized Cross-section Showing Relationship of Formations in Northeastern Ohio

W.

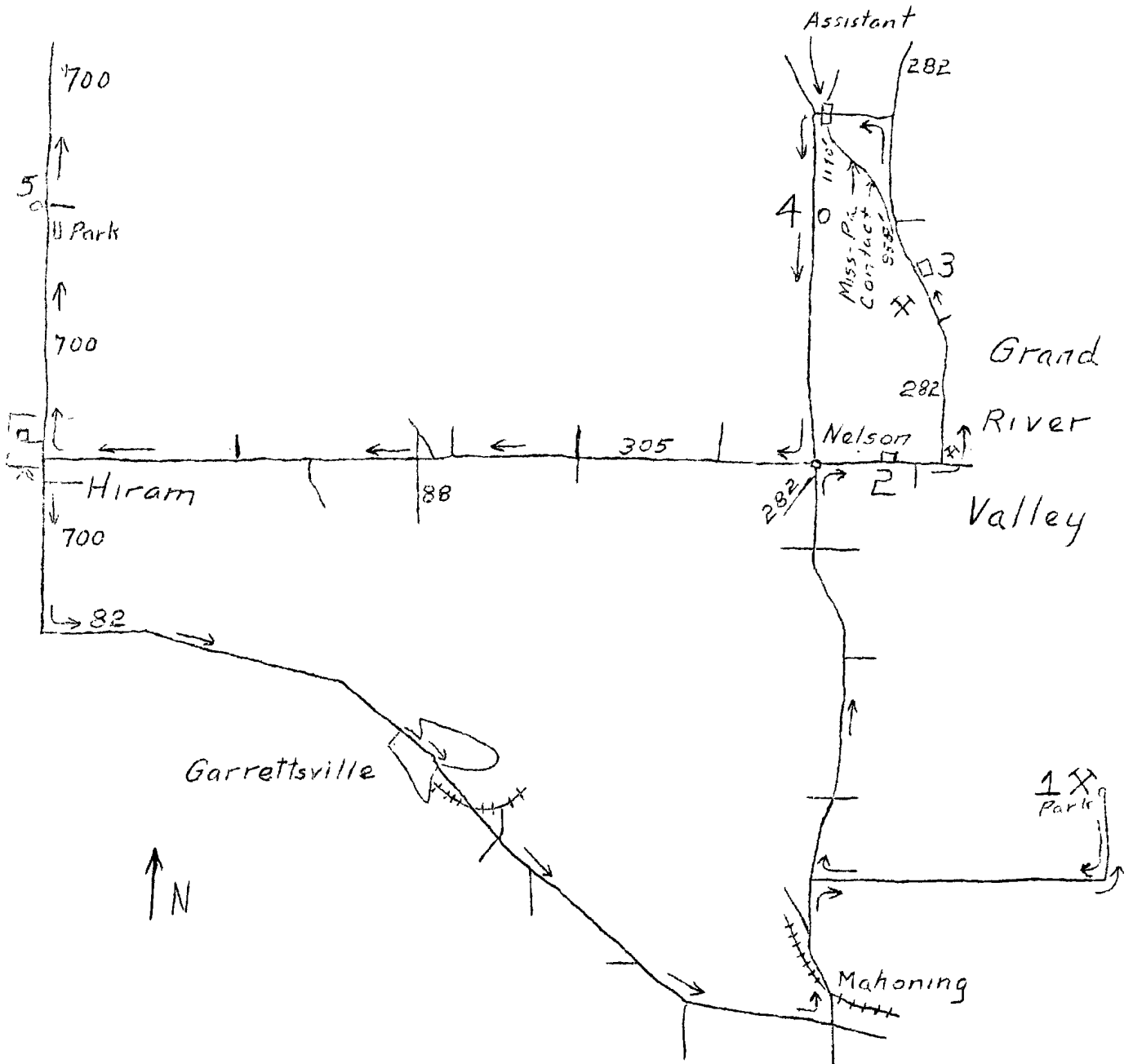
E.



General Road Map of Region  
 Covered by 1950 Fall  
 Field Trip of Geology Section  
 Ohio Academy of Science



Map showing  
First 5 Stops  
in  
Region of Hiram-Nelson Ledges  
Scale 1/62500



Road Log - Sharon Conglomerate Trip  
in  
Northeastern Ohio

<u>Directions</u>	<u>Miles</u>	<u>Stratigraphy</u>
Line up heading W. (toward Bonney Castle Inn) on Dean Street. Lv. 8:00 A.M. with lunch.	0.0	Massillon ss. exposed in ditch.
Drive to Ohio 700 and 82 (0.1 mi.) turn right (S) and follow 82 to Garrettsville.	4.0	Garrettsville on Sharon ss. with pebble layers.
Lv. Garrettsville on Ohio 82 following it to unlabeled town of Mahoning.	3.4	Sharon with glacial cover all the way.
Turn left cross R.R. and at (0.6 mi) take right fork to dirt road.	0.35	Lowland in Miss. with glacial cover.
Turn right on dirt road to church. Turn left and then bear right just before re-crossing R.R. and park.	1.9	Rise in slope is rise onto Sharon.
<u>Stop 1.</u> Old quarry of Industrial Silica Co. in Sharon conglomerate, used for foundry sand.		
Back to church turn right (W) and continue back on dirt road.	2.2	
Turn right on macadam to square at Nelson	2.8	Lowland Miss with thick glacial cover
Turn right to top of hill	0.4	highland back on Sharon
<u>Stop 2.</u> View of Grand River Valley looking E. toward Pa. Standing on Massillon with bench of Sharon below. 1st hill Southington moraine; far hills Sharon conglomerate contiguous with type Sharon in Pa.		
Continue down hill and turn left (N.) near base on Ohio 282 at	0.4	
Note quarry on right just after making turn in Sharon conglomerate pebble phase. Miss. contact at base of quarry.		
Plant of Harbison Walker Co. washing Sharon to make silica brick at	0.7	
Park at Belson Ledges	0.8	
<u>Stop 3.</u> Nelson Ledges State Park. Pebble phase of Sharon conglomerate on Mississippian (Orangeville shale). SW cross-bedding.		
Go right (N) on 282 to dirt road	1.0	On Miss. with glacial cover.

DirectionsMilesStratigraphy

Turn left climbing hill, assistant standing on the Mississippian-Pennsylvanian contact at elevation 1110' instead of 958' at Nelson Ledges. This apparently represents a Miss. hill because the Mississippian formation is Meadville, the Sharon is absent and the Massillon is the basal Pennsylvanian formation.

At top of hill	0.5	
Turn left (S) on macadam for	0.7	

Stop 4. Massillon with underlying Sharon shale.

Continue S. to Nelson	1.5	
Turn right (W) on Ohio 305, go to Hiram	4.8	Valleys in Sharon;
Turn right (N) at Hiram on Ohio 700 for	1.5	hills capped by Massillon all cover- ed by glacial till.

Stop 5. Unconformity at base of Massillon

Continue E. on 700 through Welshfield toward Burton to road cut	8.7	Massillon ss. on Sharon ss,
Continue to Ohio 44	0.5	no shale
Bear left on 44 and go to square in Burton	1.1	Massillon
Go right around square through center of town to 1 block north of square	0.3	
Turn right (E) on Goodwin St. and continue on half and half road through Burton Sta. to 608	3.6	Valley in Miss.
Turn left on Ohio 608 go to other side of hill	0.9	

Stop 6. Massillon sandstone on Sharon sandstone with only thin shale separating them.

Continue north on 608 to East Claridon	2.7	
Turn left on U.S. 322. Go through Claridon to route 44.	4.2	Sharon
Turn right (N) on 44 to Bastone plant	1.3	

Stop 7. Best quarries in another conglomerate channel of Sharon. Producing concrete block.

Return to route 44 and start mileage. It is a long drive to next stop. From South Newbury for 20 miles south we are driving over the marginal kame moraine of the Grand River Lobe with well developed kame and kettle topography and a kame terrace just south of Mantua.

Turn right (S) on 44 to road cut.	20.2	Massillon ss.
Continue south on 44 to Shalersville	1.7	

<u>Directions</u>	<u>Miles</u>	<u>Stratigraphy</u>
Turn right (W) on Ohio 303 back in marginal kame moraine at	7.6	Good kettle
Continue on 303 at	0.6	Cutting peat from kettle
Continue on 303 to Richfield	15.3	1 mi. beyond Hudson on Miss. to Richfield
Turn left (S) on to US 21 and continue to Copley.	10.4	Miss. all the way with high hills to right (W) capped by Sharon
Turn left (E) on 162 to quarry	0.9	
<u>Stop 8.</u> Copley quarry of Minnesota Mining and Mfg. Co. Another channel of conglomerate. This carries best fossils so far observed. Pebble crushed for coating to make roofing granules in past.		
Return to Copley and start mileage at junction of 21 and 162.		
Turn left (S) on 21. Look left (0.4 mi. NE) to see quarry of Miles Firebrick Co. mentioned in discussion.	1.5	Continuation of conglomerate channel.
Note Sharon sandstone with a 1 ft. conglomerate bed near top of roadcut.	0.8	East of channel in ss. phase.

Goodbye and thanks for coming!